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Substitute for form 1403PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	1	of	13	Attorney Docket No: 080586

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ²⁰ (known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	01	US4000467	12-28-1976	Lentz et al.	
	02	US4001691	01-04-1977	Gruenberg et al.	
	03	US4061970	12-06-1977	Magneron et al.	
	04	US4081752	03-28-1978	Sumi et al.	
	05	US4124825	11-07-1978	Webb et al.	
	06	US4204016	05-20-1980	Chavannes et al.	
	07	US4334323	06-08-1982	Moore et al.	
	08	US4368541	01-11-1983	Evans et al.	
	09	US4509206	04-02-1985	Carpe et al.	
	010	US4701935	10-20-1987	Namiki et al.	
	011	US4723302	02-02-1988	Fulmer et al.	
	012	US4783843	11-08-1988	Leff et al.	
	013	US4820568	04-11-1989	Harpell et al.	
	014	US4922259	05-01-1990	Hali et al.	
	015	US5023930	06-11-1991	Leslie et al.	
	016	US5214788	05-25-1993	Delaperriere et al.	
	017	US5220562	06-15-1993	Takada et al.	
	018	US5341364	08-23-1994	Marra et al.	
	019	US5349463	09-20-1994	Hirohashi et al.	
	020	US5371734	12-06-1994	Fischer et al.	
	021	US5373503	12-13-1994	Chen et al.	

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Substitute for form 1449-PTO		<i>Complete if Known</i>		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	2	of	13	Attorney Docket No: 080586

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	022	US5408197	04-18-1995	Miyake et al.	
	023	US5408618	04-18-1995	Aho et al.	
	024	US5430726	07-04-1995	Moorwood et al.	
	025	US5465251	11-07-1995	Judd et al.	
	026	US5471642	11-28-1995	Palmer et al.	
	027	US5485486	01-16-1996	Gilhouse; Klein S et al.	
	028	US5509028	04-16-1996	Marque-Pucheu et al.	
	029	US5515376	05-07-1996	Murthy et al.	
	030	US5608755	03-04-1997	Rakib et al.	
	031	US5610916	03-11-1997	Kostreski et al.	
	032	US5648984	07-15-1997	Kroninger et al.	
	033	US5654979	08-05-1997	Levin; Jeffrey A. et al.	
	034	US5659879	08-19-1997	Dupuy et al.	
	035	US5678198	10-14-1997	Lemson et al.	
	036	US5684801	11-04-1997	Amitay et al.	
	037	US5697052	12-09-1997	Treatch et al.	
	038	US5726980	03-10-1998	Rickard et al.	
	039	US5732334	03-24-1998	Miyake et al.	
	040	US5745846	04-28-1998	Myer et al.	
	041	US5754540	05-19-1998	Liu et al.	
	042	US5771174	06-23-1998	Spinner et al.	

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Substitute for form 1449PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known Application Number 10/530,546 Filing Date 2005-04-07 First Named Inventor Proctor Jr et al. Art Unit 2445 Examiner Name WINDER, PATRICE L
Sheet	3	of 13
Attorney Docket No: 080586		

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ^{2(a)} (if known)			
	043	US5784683	07-21-1998	Sistanizadeh et al.	
	044	US5815795	09-29-1998	Iwai et al.	
	045	US5852629	12-22-1998	Iwamatsu et al.	
	046	US5857144	01-05-1999	Mangum et al.	
	047	US5884181	03-16-1999	Arnold et al.	
	048	US5890055	03-30-1999	Chu et al.	
	049	US5903553	05-11-1999	Sakamoto et al.	
	050	US5907794	05-25-1999	Lehmusto et al.	
	051	US5963846	10-05-1999	Kurby et al.	
	052	US5987304	11-16-1999	Latt et al.	
	053	US6005855	12-21-1999	Zehavi et al.	
	054	US6005884	12-21-1999	Cook et al.	
	055	US6014380	01-11-2000	Hendel et al.	
	056	US6061548	05-09-2000	Reudink et al.	
	057	US6088570	07-11-2000	Komara et al.	
	058	US6101400	08-08-2000	Ogaz et al.	
	059	US6108364	08-22-2000	Weaver, Jr et al.	
	060	US6128729	10-03-2000	Kimball et al.	
	061	US6163276	12-19-2000	Irving et al.	
	062	US6188719	02-13-2001	Collomby et al.	
	063	US6195051	02-27-2001	McCoy et al.	

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		Filing Date	2005-04-07
		First Named Inventor	Proctor Jr et al.
		Art Unit	2445
		Examiner Name	WINDER, PATRICE L
Sheet	4	of	13
		Attorney Docket No: 080586	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2(a)} (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	064	US6219739	04-17-2001	Dutt et al.	
	065	US6222503	04-24-2001	Gietema et al.	
	066	US6285863	09-04-2001	Zhang et al.	
	067	US6304563	10-16-2001	Blessent et al.	
	068	US6331792	12-18-2001	Tonietto et al.	
	069	US6339694	01-15-2002	Komara et al.	
	070	US6342777	01-29-2002	Takahashi et al.	
	071	US6370185	04-09-2002	Schmutz et al.	
	072	US6370369	04-09-2002	Kraiem et al.	
	073	US6377812	04-23-2002	Baker et al.	
	074	US6377640	04-23-2002	Trans et al.	
	075	US6385181	05-07-2002	Tsutsui et al.	
	076	US6441781	08-27-2002	Rog et al.	
	077	US6473131	10-29-2002	Neugebauer et al.	
	078	US6480481	11-12-2002	Park et al.	
	079	US6501955	12-31-2002	Durrant et al.	
	080	US6535732	03-18-2003	McIntosh et al.	
	081	US6539204	03-25-2003	Marsh et al.	
	082	US6549567	04-15-2003	Fullerton et al.	
	083	US6574198	06-03-2003	Petersson et al.	
	084	US6671502	12-30-2003	Ogawa et al.	

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		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	5	of	13	Attorney Docket No: 080586

U.S. PATENT DOCUMENTS					
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	085	US6684058	01-27-2004	Karacaoglu et al.	
	086	US6728541	04-27-2004	Ohkura et al.	
	087	US6781544	08-24-2004	Saliga et al.	
	088	US6880103	04-12-2005	Kim et al.	
	089	US6906669	05-14-2005	Sabet et al.	
	090	US6934511	08-23-2005	Lovinggood et al.	
	091	US6934555	08-23-2005	Silva et al.	
	092	US6944139	09-13-2005	Campanella et al.	
	093	US6957042	10-18-2005	Williams et al.	
	094	US6983162	01-03-2006	Garani et al.	
	095	US6985516	01-10-2006	Easton et al.	
	096	US6990313	01-24-2006	Yarkosky et al.	
	097	US7027418	04-11-2006	Gan et al.	
	098	US7050442	05-23-2006	Proctor et al.	
	099	US7058368	06-06-2006	Nicholls et al.	
	0100	US7088734	08-08-2006	Newberg et al.	
	0101	US7103344	09-05-2006	Menard et al.	
	0102	US7120930	10-10-2006	Maufer et al.	
	0103	US7123676	10-17-2006	Gebara et al.	
	0104	US7132988	11-07-2006	Yegin et al.	
	0105	US7133391	11-07-2006	Belcea et al.	

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Sheet	6	of	13
Attorney Docket No: 080586			

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
	0106	US7139527	11-21-2006	Tamaki et al.	
	0107	US7167526	01-23-2007	Liang et al.	
	0108	US7193975	03-20-2007	Tsutsumi et al.	
	0109	US7194275	03-20-2007	Bolin et al.	
	0110	US7200134	04-03-2007	Proctor, Jr et al.	
	0111	US7215964	05-08-2007	Miyake et al.	
	0112	US7233771	06-19-2007	Proctor, Jr et al.	
	0113	US7248645	07-24-2007	Vialle et al.	
	0114	US7254132	08-07-2007	Takao et al.	
	0115	US7299005	11-20-2007	Yarkosky et al.	
	0116	US7315573	01-01-2008	Lusky et al.	
	0117	US7319714	01-15-2008	Sakata et al.	
	0118	US7321787	01-22-2008	Kim et al.	
	0119	US7339926	03-04-2008	Stanwood et al.	
	0120	US7352696	04-01-2008	Stephens et al.	
	0121	US7409186	08-05-2008	Van Buren et al.	
	0122	US7430397	09-30-2008	Suda et al.	
	0123	US7450936	11-11-2008	Kim et al.	
	0124	US7486929	02-03-2009	Van Buren et al.	
	0125	US7577398	08-18-2009	Judd et al.	
	0126	US7590145	09-15-2009	Futch et al.	

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	0127	US7623826	11-24-2009	Pergal et al.	
	0128	US7676194	03-09-2010	Rappaport et al.	
	0129	US20070286110	12-13-2007	James A. JR et al	
	0130	US20010031646	10-18-2001	Williams, Terry L et al.	
	0131	US20010054060	12-20-2001	Fillebrown, Lisa A et al.	
	0132	US20020018487	02-14-2002	Chen, Song et al.	
	0133	US20020045461	04-18-2002	Bongfeldt, David et al.	
	0134	US20020061031	05-23-2002	Sugar, Gary L et al.	
	0135	US20020089945	07-11-2002	Belcea, John M et al.	
	0136	US20020101843	08-01-2002	Sheng, Huang Chih et al.	
	0137	US20020102948	08-01-2002	Stanwood, Kenneth L et al.	
	0138	US20020109585	08-15-2002	Sanderson, Lelon Wayne et al.	
	0139	US20020115409	08-22-2002	Khayrallah, Ali S et al.	
	0140	US20020141435	10-03-2002	Newberg, Donald G et al.	
	0141	US20020163902	11-07-2002	Takao, Toshiaki et al.	
	0142	US20020177401	11-28-2002	Judd, Mano D et al.	
	0143	US20030026363	02-06-2003	Stoter, Jan et al.	
	0144	US20030139175	07-24-2003	Kim, Jong-Hwan et al.	
	0145	US20030185163	10-02-2003	Bertonis, James G et al.	
	0146	US20030235170	12-25-2003	Trainin, Solomon B et al.	
	0147	US20030236069	12-25-2003	Sakata, Ren et al.	

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Substitute for form 1462USPTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	8	of	13	Attorney Docket No: 080586

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2(f) known}			
	0148	US20040029537	02-12-2004	Pugel, Michael Anthony et al.	
	0149	US20040038707	02-26-2004	Kim, Hyeong Seog et al.	
	0150	US20040047333	03-11-2004	Han, Sung-Chul et al.	
	0151	US20040047335	03-11-2004	Proctor, James Arthur JR et al.	
	0152	US20040110469	06-10-2004	Judd, Mano D et al.	
	0153	US20040131025	07-08-2004	Dohler, Mischa et al.	
	0154	US20040146013	07-29-2004	Song, Peter Chun Teck et al.	
	0155	US20040157551	08-12-2004	Gainey, Kenneth M et al.	
	0156	US20040166802	08-26-2004	McKay, David L. SR et al.	
	0157	US20040176050	09-09-2004	Steer, David et al.	
	0158	US20040198295	10-07-2004	Nicholls, Charles T et al.	
	0159	US20040218683	11-04-2004	Batra, Anuj et al.	
	0160	US20040229563	11-18-2004	Fitton, Michael Philip et al.	
	0161	US20040264511	12-30-2004	Futch, Richard J et al.	
	0162	US20050014464	01-20-2005	Larsson, Peter et al.	
	0163	US20050030891	02-10-2005	Stephens, Adrian P et al.	
	0164	US20050042999	02-24-2005	Rappaport, Theodore S et al.	
	0165	US20050130587	06-16-2005	Suda, Hirohito et al.	
	0166	US20050201315	09-15-2005	Lakkis, Ismail et al.	

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Substitute for form 1449/PTQ				<i>Complete if Known</i> Application Number 10/530,546 Filing Date 2005-04-07 First Named Inventor Proctor Jr et al. Art Unit 2445 Examiner Name WINDER, PATRICE L	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>					
Sheet	9	of	13	Attorney Docket No: 080586	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^(if known)			
	0167	US20050254442	11-17-2005	Proctor, James A. JR et al.	
	0168	US20050256963	11-17-2005	Proctor Jr., James A et al.	
	0169	US20060035643	02-16-2006	Vook et al.	
	0170	US20060052066	03-09-2006	Cleveland et al.	
	0171	US20060052099	03-09-2006	Parker et al.	
	0172	US20060056352	03-16-2006	Proctor et al.	
	0173	US20060063484	03-23-2006	Proctor et al.	
	0174	US20060063485	03-23-2006	Gainey et al.	
	0175	US20060098592	05-11-2006	Proctor Jr et al.	
	0176	US20060183421	08-17-2006	Proctor et al.	
	0177	US20060203757	09-14-2006	Young et al.	
	0178	US20060262026	11-23-2006	Gainey et al.	
	0179	US20070025349	02-01-2007	Bajic et al.	
	0180	US20070025486	02-01-2007	Gainey et al.	
	0181	US20070032192	02-08-2007	Gainey et al.	
	0182	US20070121548	05-31-2007	Zuckerman et al.	
	0183	US20080057862	03-06-2008	Smith et al.	
	0184	US20080233942	09-25-2008	Kim et al.	
	0185	US7187904	03-06-2007	Gainey, Kenneth M et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	10	of	13	Attorney Docket No: 080556

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	0186	EP0523687A2	01-20-1993	FUJITSU LTD [JP]		<input type="checkbox"/>
	0187	EP0860953A1	08-26-1998	SAGEM [FR]		<input type="checkbox"/>
	0188	GB2272599A	05-18-1994	NOKIA TELECOMMUNICATIONS OY [FI]		<input type="checkbox"/>
	0189	JP8097762A	04-12-1996	INFUORABU KK		<input type="checkbox"/>
	0190	JP9162903A	06-20-1997	VICTOR COMPANY OF JAPAN et al.		<input type="checkbox"/>
	0191	JP7079187A	03-20-1995	ALCATEL MOBILE COMM FRANCE		<input type="checkbox"/>
	0192	WO0208857A2	01-31-2002	CADENCE DESIGN SYSTEMS INC [US]		<input type="checkbox"/>
	0193	WO0217572A2	02-28-2002	NORTEL NETWORKS CORP [CA] et al.		<input type="checkbox"/>
	0194	WO2004002014A1	12-31-2003	WIDEFI INC [US] et al.		<input type="checkbox"/>
	0195	WO2004062305A1	07-22-2004	WIDEFI INC [US] et al.		<input type="checkbox"/>
						<input type="checkbox"/>
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						<input type="checkbox"/>
						<input type="checkbox"/>

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Substitute for form 1449(P)TO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	11	of	13	Attorney Docket No: 080586

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	0196	ANDRISANO, et al., "On the Spectral Efficiency of CPM Systems over Real Channel in the Presence of Adjacent Channel and CoChannel Interference: A Comparison between Partial and Full Response Systems, IEEE Transactions on Vehicular Technology, Vol. 39, No. 2, May 1990.	
	0197	Code of Federal Regulations, Title 47 Telecommunication; "Federal Communications Commission code part 15.407," Federal Communications Commission vol.1, chapter 1, part 15.407.	
	0198	Draft Corrigendum to IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed Broadband Wireless Access Systems, IEEE P802.16-2004/Cor1/D5.	
	0199	Draft IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems; Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands.	
	0200	IEEE 802.16(e), Part 16: Air Interface for Fixed Broadband Wireless Access Systems, 2005, Sections 8.4.10.2.1; 8.4.10.3.2.	
	0201	IEEE Std 802.11-1999 (Reaff 2003), "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications," LAN MAN Standards Committee of the IEEE Computer Society; Paragraphs 7.2.3.1 and 7.2.3.9; Paragraph 7.3.2.4; Paragraphs 15.4.6.2 and 18.4.6.2.	
	0202	IEEE Std 802.11b-1999, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band," IEEE-SA Standards Board, Supplement to ANSI/IEEE Std. 802.11, 1999 Edition, Approved September 16, 1999.	
	0203	IEEE Std 802.11g-2003, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Amendment 4: Further Higher Data Rate Extension in the 2.4 GHz Band," IEEE Computer Society, Published by The Institute of Electrical and Electronics Engineers, Inc., June 27, 2003.	
	0204	IEEE Std 802.16-2001, "Part 16: Air Interface for Fixed Broadband Wireless Access Systems," IEEE Computer Society and the IEEE Microwave Theory and Techniques	

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 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST-16 if possible. * Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by theUSPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/530,546	
		Filing Date	2005-04-07	
		First Named Inventor	Proctor Jr et al.	
		Art Unit	2445	
		Examiner Name	WINDER, PATRICE L	
Sheet	12	of	13	Attorney Docket No: 080586

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		Society, Published by The Institute of Electrical and Electronics Engineers, Inc., April 8, 2002.	
	0205	International Search Report - PCT/US03/029117, International Search Authority - US, 02-13-04 (080586WO)	
	0206	KANNANGARA, et al., "Analysis of an Adaptive Wideband Duplexer with Double-Loop Cancellation," IEEE Transactions on Vehicular Technology, vol. 56, no. 4, July 2007, pp. 1971-1982.	
	0207	KUTLU, et al., "Performance Analysis of MAC Protocols for Wireless Control Area Network," 1996 IEEE, pp. 494-499.	
	0208	Specifications for 2.3 GHz Band Portable Internet Service - Physical & Medium Access Control Layer, TTAS KO-06 0082/R1, December 2005.	

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